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Amendments to the Claims

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1 19 (canceled)
- 20. (previously presented): An integrated circuit comprising:
- a deposition substrate;
- a patterned first electrode layer formed adjacent the deposition substrate;
- a patterned organic semiconductor layer formed adjacent the first electrode layer; and
- a second patterned electrode layer deposited adjacent the organic semiconductor layer, wherein the patterned first electrode layer, the patterned organic semiconductor layer, and the second patterned electrode layer are each defined by a repositionable aperture mask, and wherein one of the patterned first electrode layer and the patterned second electrode layer defines source and drain electrodes, and one of the patterned first electrode layer and the patterned second electrode layer defines a gate electrode.
- 21. (original): The integrated circuit of claim 20, wherein the patterned first electrode layer defines a gate electrode, and wherein the second patterned electrode layer defines source and drain electrodes.
- 22. (original): The integrated circuit of claim 20, wherein the patterned first electrode layer defines source and drain electrodes, and wherein the patterned second electrode layer defines a gate electrode.
- 23. (original): The integrated circuit of claim 21, wherein the source and drain electrodes are separated by a gap less than approximately 20 microns.

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- 24. (original): The integrated circuit of claim 23, wherein the gap is less than approximately 10 microns.
- 25. (original): The integrated circuit of claim 20, wherein the organic semiconductor comprises a polycrystalline organic semiconductor.
- 26. (original): The integrated circuit of claim 25, wherein the organic semiconductor is pentacene.
- 27. (original): The integrated circuit of claim 20, further comprising one or more complimentary transistor circuit elements.
- 28. (original): The integrated circuit of claim 27, wherein the complementary transistor circuit elements include a semiconductor layer comprising amorphous silicon.
- 29. (original): The integrated circuit of claim 20, wherein one or more of the layers include one or more interconnects.
- 30. (original): The integrated circuit of claim 20, further comprising one or more interconnect layers.
- 31. (original): The integrated circuit of claim 30, wherein the interconnect layers are defined by one or more repositionable aperture masks.
- 32. (original): The integrated circuit of claim 20, further comprising a patterned dielectric layer formed adjacent the organic semiconductor layer.
- 33. (original): The integrated circuit of claim 20, wherein the integrated circuit forms at least part of a circuit selected from the following group of circuits: an electronic display, a radio frequency identification (RFID) circuit, and an electronic memory.

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34 - 38 (canceled)

- 39. (previously presented): The integrated circuit of claim 20 wherein at least one of said first electrode layer, said patterned organic semiconductor layer or said second patterned electrode layer is vapor deposited.
- 40. (previously presented): The integrated circuit of claim 20 wherein each of said first electrode layer, said patterned organic semiconductor layer or said second patterned electrode layer are vapor deposited.